

The Impact of Technology on Social Interaction

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Abstract:

The rapid advancement of technology has significantly transformed the landscape of social interaction. This article explores the multifaceted impact of technology on various aspects of social interaction, including communication patterns, relationship dynamics, and psychological well-being. Through an interdisciplinary lens, it examines both the positive and negative ramifications of technological innovations on social behavior and offers insights into fostering healthy digital habits in an increasingly connected world.

Keywords: *Technology, social interaction, communication, relationships, digital habits, psychological well-being.*

Introduction:

In contemporary society, technology has become an integral part of everyday life, profoundly influencing how individuals interact and communicate with one another. The proliferation of smartphones, social media platforms, and digital communication tools has reshaped the dynamics of social interaction, presenting both opportunities and challenges. This article aims to dissect the intricate relationship between technology and social interaction, shedding light on its implications for individuals, communities, and society at large.

Evolution of Communication Technologies:

The evolution of communication technologies has been a transformative journey spanning centuries, marked by remarkable innovations that have redefined how humans connect and interact with one another. Beginning with ancient forms of communication such as cave paintings, smoke signals, and carrier pigeons, humanity gradually developed more sophisticated means of conveying messages across distances. The invention of writing systems, such as cuneiform and hieroglyphics, represented significant milestones in the history of communication, enabling the preservation and dissemination of knowledge on a broader scale.

With the advent of the printing press in the 15th century, communication underwent a revolutionary shift, as mass-produced books and pamphlets facilitated the spread of ideas and information across continents. This democratization of knowledge laid the groundwork for the Enlightenment and the rise of modern science, fostering intellectual exchange and societal progress. The telegraph, introduced in the 19th century, further accelerated the pace of communication by enabling near-instantaneous transmission of messages over long distances, shrinking the world and connecting distant regions in ways previously unimaginable.

The 20th century witnessed unprecedented advancements in communication

technology, culminating in the development of the telephone, radio, and television. These innovations revolutionized mass communication, shaping public discourse, and cultural norms on a global scale. The rise of the internet in the late 20th century represented a paradigm shift, ushering in the digital age and paving the way for the interconnected world we inhabit today. With the proliferation of smartphones, social media platforms, and digital communication tools, individuals have unprecedented access to information and the ability to connect with others instantaneously, transcending geographical boundaries and cultural barriers.

Historical perspective on the development of communication technologies.

The evolution of communication technologies spans millennia, reflecting humanity's relentless pursuit of connectivity and expression. From ancient cave paintings to the advent of the internet, each innovation has propelled society forward in its quest to bridge distances and share ideas. Millennia ago, our ancestors communicated through rudimentary means such as grunts, gestures, and drawings, laying the foundation for language and symbolic representation. With the invention of writing systems, civilizations could record information, transmit knowledge across generations, and communicate across vast distances through written correspondence.

The invention of the printing press in the 15th century revolutionized communication by enabling the mass production of books and pamphlets, democratizing access to knowledge and fostering the spread of ideas during the Renaissance and Enlightenment periods. The telegraph, introduced in the

19th century, marked a significant milestone in long-distance communication, allowing messages to be transmitted electronically across continents at unprecedented speeds via Morse code.

The 20th century witnessed a rapid acceleration in communication technologies, with the invention of the telephone, radio, and television, ushering in an era of instant, mass communication. These innovations transformed how people interacted, consumed information, and experienced the world, shrinking geographical barriers and shaping global culture. The digital revolution of the late 20th century brought about the proliferation of computers, mobile phones, and the internet, further revolutionizing communication by facilitating real-time connectivity and the exchange of multimedia content on a global scale.

Today, we stand at the forefront of a digital age characterized by ubiquitous connectivity and constant innovation in communication technologies. From social media platforms to messaging apps and virtual reality, the landscape of communication continues to evolve rapidly, presenting both opportunities and challenges for individuals and society. As we reflect on the historical trajectory of communication technologies, we gain insight into the profound impact they have had on shaping human interaction, culture, and progress throughout the ages.

Emergence of digital platforms and their impact on social interaction.

The emergence of digital platforms has revolutionized the landscape of social interaction, fundamentally altering how individuals connect, communicate, and engage with one another. With the advent of

the internet and subsequent development of social media platforms, such as Facebook, Twitter, and Instagram, people now have unprecedented opportunities to interact across vast distances and diverse communities. These platforms have democratized communication, enabling individuals to share thoughts, experiences, and information in real-time, transcending geographical boundaries.

However, alongside the benefits of increased connectivity, digital platforms have also introduced unique challenges to social interaction. The ease of communication afforded by these platforms has led to an influx of information and stimuli, often resulting in information overload and fragmented attention spans. Moreover, the curated nature of social media feeds can contribute to the proliferation of echo chambers and filter bubbles, where individuals are exposed primarily to content that reinforces their existing beliefs and perspectives, potentially hindering constructive dialogue and diverse viewpoints.

The rise of digital platforms has reshaped the dynamics of interpersonal relationships, blurring the boundaries between public and private spheres. The prevalence of social media has altered social norms and expectations, with individuals increasingly relying on digital interactions to maintain social connections and validate their sense of self-worth. This shift towards mediated communication has raised concerns about the quality and authenticity of social interactions, as well as the potential for online disinhibition and cyberbullying.

Despite these challenges, digital platforms also offer unique opportunities for fostering

meaningful social interactions and community engagement. Virtual communities centered around shared interests, hobbies, and identities have flourished online, providing individuals with spaces for connection, support, and collaboration. Moreover, digital platforms have facilitated the dissemination of important information and resources, empowering individuals to mobilize for social causes and civic activism on a global scale.

The emergence of digital platforms has had a profound impact on social interaction, reshaping the ways in which individuals communicate, form relationships, and participate in society. While these platforms offer unprecedented opportunities for connectivity and community engagement, they also present challenges related to information overload, filter bubbles, and the erosion of face-to-face communication. Understanding the complexities of digital interaction is essential for navigating the digital age and harnessing the potential of technology to enhance, rather than diminish, human connection.

Communication Patterns in the Digital Age:

In the digital age, communication patterns have undergone a profound transformation, reshaping the way individuals interact with one another. One notable shift is the preference for digital communication channels over traditional face-to-face interactions. With the ubiquity of smartphones and the prevalence of social media platforms, people increasingly rely on texting, messaging apps, and social networking sites to connect with others. This asynchronous mode of communication

offers convenience and immediacy, allowing individuals to engage in conversations at their own pace and convenience.

However, this shift towards digital communication has also brought about changes in communication dynamics. The brevity and informality of text-based interactions can sometimes lead to misunderstandings or misinterpretations, as nuances such as tone of voice and body language are lost in translation. Moreover, the constant influx of messages and notifications can contribute to feelings of information overload and distract individuals from meaningful face-to-face interactions.

Another notable aspect of communication patterns in the digital age is the blurring of boundaries between personal and professional spheres. With the advent of remote work and digital collaboration tools, individuals often find themselves navigating a complex web of communication channels that traverse both their professional and personal lives. While this interconnectedness can enhance productivity and flexibility, it also raises concerns about work-life balance and privacy.

The rise of social media has profoundly influenced how individuals present themselves and communicate with others online. The curated nature of social media profiles can create pressure to maintain a certain image or persona, leading to a phenomenon known as "digital self-presentation." This phenomenon can affect individuals' authenticity in online interactions and contribute to feelings of social comparison and inadequacy.

Communication patterns in the digital age are characterized by a complex interplay

between convenience, connectivity, and challenges. While digital communication offers unprecedented opportunities for connection and collaboration, it also poses challenges such as information overload, miscommunication, and the blurring of boundaries between personal and professional life. Understanding these dynamics is essential for navigating the digital landscape and fostering meaningful interactions in an increasingly interconnected world.

Shifts in communication preferences and behaviors.

Shifts in communication preferences and behaviors have been one of the most pronounced consequences of technological advancement. With the advent of digital platforms and mobile devices, traditional modes of communication have undergone a significant transformation. One notable shift is the preference for asynchronous communication over synchronous forms. Instant messaging, email, and social media have enabled individuals to engage in conversations without the constraints of time and place, allowing for flexibility and convenience in communication.

The brevity and immediacy of digital communication have led to changes in communication styles and norms. Abbreviations, emojis, and gifs have become integral elements of online conversations, facilitating rapid exchange of information and expression of emotions. This evolution in communication practices reflects a cultural adaptation to the fast-paced nature of digital interactions, where efficiency and succinctness are prioritized.

Another noteworthy change is the blurring of boundaries between personal and

professional communication channels. Social media platforms, initially designed for personal networking, have increasingly been utilized for professional purposes such as networking, recruitment, and brand promotion. This convergence of personal and professional spheres has implications for privacy, authenticity, and the maintenance of professional etiquette in online interactions.

Additionally, the rise of social media influencers and digital influencers has reshaped the dynamics of communication and influence. These individuals leverage their online presence and follower base to disseminate information, shape opinions, and influence consumer behavior. As a result, traditional hierarchies of communication have been disrupted, with power and influence distributed among a diverse array of digital content creators.

The proliferation of digital communication tools has expanded the scope and reach of interpersonal connections. Virtual communities, online forums, and social networking sites have facilitated the formation of global networks based on shared interests, identities, and affiliations. This interconnectedness transcends geographical boundaries, enabling individuals to connect with like-minded individuals and communities regardless of physical proximity.

Effects of asynchronous communication on interpersonal relationships.

Asynchronous communication, facilitated by digital platforms such as email, messaging apps, and social media, has revolutionized how individuals interact in both personal and professional settings. However, its impact on interpersonal relationships is

nuanced and multifaceted. One significant effect is the blurring of boundaries between work and personal life. With constant access to communication channels, individuals may find it challenging to disconnect from work, leading to increased stress and strain on personal relationships.

The lack of immediacy inherent in asynchronous communication can contribute to misinterpretation and misunderstanding. Without real-time feedback cues such as tone of voice or body language, messages may be perceived differently than intended, potentially leading to conflict or discord. This highlights the importance of clarity and precision in written communication to minimize miscommunication and maintain healthy relationships.

Additionally, the asynchronous nature of digital communication can create feelings of disconnection and isolation, particularly in long-distance relationships or among individuals with busy schedules. Unlike face-to-face interactions, which offer opportunities for spontaneous conversation and emotional connection, asynchronous communication can feel impersonal and transactional, diminishing the quality of relationships over time.

The convenience of asynchronous communication may inadvertently lead to decreased empathy and active listening skills. In the absence of real-time engagement, individuals may prioritize efficiency over empathy, responding hastily or superficially to messages without fully considering the thoughts and feelings of the other person. This can erode trust and intimacy in relationships, undermining their foundation and longevity.

Despite these challenges, asynchronous communication also presents opportunities for deeper reflection and thoughtful expression. By allowing individuals to compose messages at their own pace, it can facilitate more articulate and introspective communication, fostering deeper connections and mutual understanding. However, to realize these benefits while mitigating the negative effects, it is essential for individuals to cultivate mindfulness, empathy, and intentionality in their digital interactions.

Impact on Relationship Dynamics:

The pervasive integration of technology into our daily lives has profoundly influenced the dynamics of relationships, altering the way individuals initiate, maintain, and navigate interpersonal connections. One significant aspect of this impact is the transformation in the formation of relationships. In the digital age, online dating platforms, social media networks, and virtual communities have facilitated the introduction of individuals who may never have crossed paths otherwise. While these digital avenues offer opportunities for widening social circles and meeting potential partners, they also introduce complexities in establishing genuine connections amidst curated online personas.

Technology has redefined the notion of presence in relationships, blurring the boundaries between physical and virtual interactions. With the prevalence of instant messaging, video calls, and social media, individuals can maintain continuous contact regardless of geographical distance. While this connectivity has the potential to strengthen bonds by fostering constant communication, it also raises questions

about the quality and depth of these interactions. The absence of non-verbal cues and physical presence in digital communication channels may hinder the development of intimacy and emotional connection, leading to a sense of disconnection despite constant online engagement.

Additionally, the influence of technology extends to the maintenance and management of relationships, presenting both opportunities for enrichment and challenges for relational well-being. Digital communication tools offer unprecedented convenience in staying connected, yet they also introduce new sources of tension and conflict. Misinterpretation of text messages, digital misunderstandings, and the pressure for immediate responses can escalate communication breakdowns and exacerbate relational strains. Furthermore, the pervasive nature of social media can trigger feelings of jealousy, insecurity, and comparison, fueling relationship dissatisfaction and undermining trust.

The prevalence of technology in modern relationships has raised concerns about the erosion of intimacy and empathy. As individuals increasingly rely on digital communication for interpersonal interactions, face-to-face encounters and genuine emotional connections may become less prioritized. The convenience of virtual interactions may deter individuals from investing time and effort in nurturing deeper connections, leading to a superficiality that undermines the richness of authentic human relationships. Consequently, there is a need for deliberate efforts to balance digital connectivity with offline engagement, fostering meaningful connections that transcend the limitations of technology.

Technology's impact on relationship dynamics is multifaceted, reshaping the way individuals form, maintain, and experience connections with others. While digital innovations offer unprecedented avenues for connectivity and communication, they also introduce challenges such as digital misunderstandings, relational tensions, and a potential erosion of intimacy. By recognizing these complexities and proactively addressing them, individuals can cultivate healthier and more fulfilling relationships in the digital age.

Influence of technology on the formation and maintenance of relationships.

The influence of technology on the formation and maintenance of relationships is profound, reshaping traditional notions of connectivity and intimacy. In the digital age, individuals have unprecedented access to a myriad of communication platforms, enabling them to forge connections across vast distances and diverse cultures. Social media, dating apps, and online forums have revolutionized how people meet and interact, transcending geographical barriers and facilitating the emergence of virtual communities. These digital spaces offer avenues for individuals to discover like-minded peers, engage in shared interests, and establish meaningful connections based on common values and experiences.

However, while technology provides avenues for initial connection, its impact on the depth and quality of relationships remains a subject of debate. Digital communication often lacks the nuances of face-to-face interaction, leading to a sense of superficiality and disconnection in some relationships. The absence of nonverbal cues, such as tone of voice and body

language, can impede the development of trust and emotional intimacy, potentially hindering the formation of deep bonds. Moreover, the prevalence of curated personas and filtered content on social media platforms may contribute to feelings of inadequacy and insecurity, undermining authentic self-expression and vulnerability in relationships.

The continuous connectivity afforded by technology presents challenges in maintaining boundaries and preserving individual autonomy within relationships. The blurring of personal and professional spheres in online spaces can lead to intrusive communication and a sense of constant surveillance, eroding privacy and autonomy. Additionally, the temptation to prioritize digital interactions over in-person engagement can strain relationships, as individuals struggle to balance virtual connectivity with real-world commitments and responsibilities.

Nevertheless, technology also offers opportunities for strengthening existing relationships and fostering mutual support and understanding. Digital communication tools enable couples separated by distance to stay connected and maintain intimacy through video calls, messaging apps, and shared digital experiences. Moreover, social media platforms provide platforms for expressing affection, celebrating milestones, and fostering a sense of belonging within social circles. By leveraging technology mindfully and intentionally, individuals can navigate the complexities of modern relationships and cultivate meaningful connections that transcend the digital realm.

Challenges posed by digital communication in fostering intimacy and empathy.

Challenges arise in the realm of digital communication when it comes to fostering intimacy and empathy. Firstly, the absence of non-verbal cues, such as facial expressions and body language, limits the depth of emotional connection that can be established online. Without these cues, individuals may struggle to accurately interpret the emotions and intentions of their counterparts, leading to misunderstandings and miscommunication. Consequently, the nuances of intimate conversations, where empathy plays a crucial role, may be lost in translation through digital mediums.

Secondly, the prevalence of asynchronous communication platforms, such as email and messaging apps, introduces delays in response times and disrupts the natural flow of dialogue. Unlike face-to-face interactions or real-time conversations, digital exchanges often lack spontaneity and immediate feedback, hindering the development of empathetic connections. Moreover, the convenience of editing and curating messages before sending them may diminish the authenticity of communication, making it challenging to convey genuine empathy and understanding.

Thirdly, the digital landscape is inundated with distractions and competing stimuli that can detract from meaningful interpersonal exchanges. Notifications, alerts, and the constant barrage of information vying for attention can fragment focus and detract from the quality of communication. In such a context, individuals may struggle to fully engage with others and demonstrate

empathetic responses, as their attention is divided between multiple digital stimuli.

The anonymity and perceived anonymity afforded by digital platforms can lead to a lack of accountability and empathy in online interactions. Without the immediate consequences of face-to-face encounters, individuals may feel emboldened to express themselves more freely, sometimes at the expense of empathy and consideration for others' feelings. This can manifest in online behaviors such as cyberbullying, trolling, and hostile discourse, which erode the foundations of intimacy and empathy in digital spaces.

Navigating the challenges of digital communication in fostering intimacy and empathy requires awareness, intentionality, and adaptation. Recognizing the limitations of digital mediums, actively practicing empathetic communication skills, and prioritizing genuine connections over superficial interactions are essential steps towards fostering meaningful relationships in the digital age.

Psychological Well-being in a Digitally Connected World:

In a digitally connected world, the implications for psychological well-being are profound and multifaceted. One of the primary concerns is the impact of excessive screen time and social media usage on mental health. Research suggests that prolonged engagement with digital devices can contribute to feelings of anxiety, depression, and loneliness, particularly among adolescents and young adults. The constant exposure to curated images and idealized lifestyles on social media platforms can foster unrealistic comparisons

and a sense of inadequacy, exacerbating mental health challenges.

The addictive nature of technology can lead to compulsive behaviors and a diminished capacity for offline social interactions. The constant stimulation provided by digital devices may disrupt sleep patterns, impair cognitive functioning, and hinder the development of healthy coping mechanisms. As individuals become increasingly reliant on virtual interactions, there is a risk of social isolation and a decline in real-world social skills, which are essential for forming meaningful connections and maintaining emotional resilience.

Addressing these challenges requires a comprehensive approach that promotes digital literacy, self-regulation, and mindfulness. Educating individuals, particularly young people, about the potential risks of excessive technology use and providing them with tools to navigate digital environments responsibly is essential. Encouraging breaks from screens, fostering offline hobbies and activities, and promoting face-to-face interactions can help mitigate the negative effects of technology on psychological well-being. Additionally, creating supportive communities both online and offline where individuals feel valued, understood, and connected can serve as a buffer against the adverse impacts of digital connectivity. By prioritizing mental health in the digital age, we can strive to create a more balanced and fulfilling relationship with technology.

Effects of excessive screen time and social media usage on mental health.

Excessive screen time and social media usage have emerged as significant factors influencing mental health outcomes,

particularly among adolescents and young adults. Firstly, prolonged exposure to screens, whether through smartphones, computers, or televisions, has been associated with increased rates of anxiety, depression, and stress. The constant bombardment of information and stimuli can overwhelm the brain, leading to cognitive fatigue and emotional exhaustion. Moreover, excessive screen time often displaces time that could be spent on physical activity, outdoor pursuits, or face-to-face social interactions, all of which are crucial for maintaining mental well-being.

Secondly, social media platforms, while designed to connect individuals, can paradoxically exacerbate feelings of loneliness, inadequacy, and social isolation. The curated nature of social media profiles fosters a culture of comparison, where users measure their worth against idealized representations of others. This phenomenon, known as "social comparison," can erode self-esteem and contribute to negative self-perceptions. Additionally, the constant exposure to social media notifications and updates can create a sense of FOMO (fear of missing out), perpetuating feelings of anxiety and inadequacy.

Thirdly, excessive screen time and social media usage have been linked to disruptions in sleep patterns, further compromising mental health. The blue light emitted by screens can interfere with the body's natural circadian rhythm, making it difficult to fall asleep and achieve restorative sleep. Chronic sleep deprivation has been associated with a myriad of mental health issues, including mood disorders, cognitive impairment, and decreased resilience to stress. Thus, the addictive nature of screens and social media

can create a vicious cycle of poor sleep quality and deteriorating mental health.

The anonymity and disinhibition afforded by online interactions can facilitate cyberbullying and harassment, contributing to psychological distress and trauma. Cyberbullying victims often experience heightened levels of anxiety, depression, and suicidal ideation, as they grapple with the psychological repercussions of online abuse. The pervasive nature of social media amplifies the impact of cyberbullying, as hurtful messages and rumors can spread rapidly, reaching a wide audience within moments.

The effects of excessive screen time and social media usage on mental health are profound and multifaceted. Addressing these issues requires a holistic approach that encompasses education, digital literacy, and healthy usage guidelines. By promoting mindful screen habits, fostering supportive online communities, and prioritizing offline

interactions, individuals and society can mitigate the negative impact of technology on mental well-being.

Summary:

The pervasive influence of technology on social interaction is undeniable, shaping how individuals communicate, form relationships, and perceive the world around them. While technology offers unprecedented connectivity and access to information, it also poses challenges such as digital distraction, social isolation, and erosion of interpersonal skills. By understanding the complexities of this relationship, individuals and society can proactively address these challenges and harness the benefits of technology for enhancing meaningful social interactions. Cultivating awareness, mindfulness, and responsible usage practices are essential steps towards fostering a healthy balance between digital connectivity and real-world social engagement.

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